Date : 31/03/2021

TEST REPORT ON PHYSICAL PROPERTIES OF CEMENT

Name of Client:	Executive Engineer Bruhat Bangalore Mahanagara Palike
Address:	Yelahanka Division
Package No:	Package - 01
Name of Work:	Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor:	M/s Sri Sai Constructions
Name of PMC:	M/s Gooly Consultancy services, Bangalore
Date of Receipt:	26/02/2021
Sample ID No:	
Location:	Ward-01, Maruthi Nagar Papaiah Layout 4th Cross Road
Sampling :	Sample Received from the site and tested
Sample Identification*:	Bharathi OPC 43 grade
Reference to BIS codes:	**Test Method:**
	IS 4031(Part 1) 1996(RA 2016) Determination Of Fineness By Dry Sieving
	IS 4031(Part 3) 1988 (RA 2019) Determination Of Soundness
	IS 4031 (Part 4) 1988 (RA 2019) Determination Of Consistency Of Standard Cement Paste
	IS 4031 (Part 5) 1988 (RA 2019) Determination Of Initial & Final Setting Time
	IS 4031 (Part 6) 1988 (RA 2019) Determination Of Compressive Strength
	IS 4031 (Part 11) 1988 (RA 2019) Determination Of Density
	Specification :
	IS 269 : 2015 Ordinary Portland Cement
Condition of sample:	Satisfactory
Date of test:	1/03/2021 to 29/03/2021

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
1	Standard Consistency	30	%	Not specified	Not specified	Not specified
2	Initial Setting time	185	minutes	Min 30 minutes	Min 30 minutes	Min 30 minutes
3	Final Setting time	360	minutes	Max 600 minutes	Max 600 minutes	Max 600 minutes
4	Fineness by dry sieving	6.8	%	-	-	-
5	Density	3.12	g/cm^3	-	-	-

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Date : 31/03/2021

Sample ID No:

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
1	Compressive Strength					
2	3 Days	24.0	N/mm^2	Min 16 N/mm^2	Min 23 N/mm^2	Min 27 N/mm^2
3	7 Days	34.0	N/mm^2	Min 22 N/mm^2	Min 33 N/mm^2	Min 37 N/mm^2
4	28 Days	45.0	N/mm^2	Min 33 N/mm^2, Max 48 N/mm^2	Min 43 N/mm^2, Max 58 N/mm^2	Min 53 N/mm^2

Remarks:

The tested samples found to be satisfactory as it meets IS 269 : 2015 Specification standards

1. The test results pertain to the number of sample received and tested
2. Any correction in the report will make this report invalid
3. This report without prior written approval should not be reproduced or published in full or part
4. Samples will be disposed after 90 days from the date of issue of test certificate

Prepared By: Deepthi PT

Tested By: Pushpa D.B

Project Manager

Gooly Consultancy Services Bangalore

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Date : 31/03/2021

TEST REPORT ON MECHANICAL PROPERTIES OF COARSE AGGREGATES

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Recipient: 26/02/2021
Sample ID No:
Location: Ward-01, Maruthi Nagar Papaiah Layout 4th Cross Road
Sample Identification*: 20mm down size Coarse Aggregate
Sampling : Sample Received from the site and Tested
Reference to BIS codes: **Test Method**:
IS 2386 (Part 1) : 1963 (RA 2016) Particle Size And Shape Cl.2
IS 2386 (Part 3) : 1963 (RA 2016) Specific gravity, density, voids, absorption and bulking
IS 2386 (Part 4) : 1963 (RA 2016) Mechanical Properties
Specification:
IS 383 : 2016 Coarse And Fine Aggregate For Concrete
Condition of sample: Satisfactory
Date of test: 1/03/2021 to 29/03/2021

A.E.E

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM COARSE AGGREGATE:

Total weight taken: 5000 grams

Sl.No	Sieve Designation	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Requirement as per IS 383: 2016 Table-7 (Cl 6.1 & 6.2)	
						Graded	Single-Sized
1	40 mm	0	0	0	100	100	100
2	20 mm	425	425	8.5	91.5	90-100	85-100
3	10 mm	3235	3660	73.2	26.8	25-55	0-20
4	4.75 mm	858	4518	90.36	9.64	0-10	0-5
5	Pan	482	5000	100	0	---	---

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Contact: +91-80-42227023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Date : 31/03/2021

TEST REPORT ON PHYSICAL PROPERTIES OF FINE AGGREGATE

Name of Client:	Executive Engineer Bruhat Bangalore Mahanagara Palike
Address:	Yelahanka Division
Package No:	Package - 01
Name of Work:	Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor:	M/s Sri Sai Constructions
Name of PMC:	M/s Gooly Consultancy services, Bangalore
Date of Receipt:	26/02/2021
Sample ID No:	
Location:	Ward-01, Maruthi Nagar Papaiah Layout 4th Cross
Sampling :	Sample Received from the site and tested
Sample Identification*:	M-Sand
Reference to BIS codes:	**Test Method**
	IS 2386 (Part 1) : 1963 (RA 2016) Particle Size And Shape Cl 2
	IS 2386 (Part 3) : 1963 (RA 2016) Specific gravity, density, voids, absorption and bulking
	IS 2386 (Part 4) :1963 (RA 2016) Mechanical Properties
	Specification
	IS 383 : 2016 Coarse and fine aggregate for concrete
Condition of sample:	Satisfactory
Date of test:	1/03/2021 to 29/03/2021

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF FINE AGGREGATE:

Total weight taken: 1000 grams

SL.No	Sieve Designation	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383 : 2016 Table-9, (Cl-6.3)				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample confirms to Grading Zone- II
2	4.75 mm	0	0	0	100	90-100	90-100	90-100	95-100	
3	2.36 mm	95	95	9.5	90.5	60-95	75-100	85-100	95-100	
4	1.18 mm	295	390	39	61	30-70	55-90	75-100	90-100	
5	600 micron	245	635	63.5	36.5	15-34	35-59	60-79	80-100	
6	300 micron	221	856	85.6	14.4	5-20	8-30	12-40	15-50	
7	150 micron	65	921	92.1	7.9	0-10	0-10	0-10	0-15	
8	Pan	28	949	94.9	5.1	---	---	---	---	

Corporate off : No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Sample ID No:

PHYSICAL PROPERTIES

Sl No	Tests	Result	Requirements as per IS 383 : 2016 Table-3, (Cl-5.7)
1	Specific Gravity	2.6	2.1 to 3.2
2	Water Absorption (%)	2.3	5% Max
3	Finer than 75 micron	8.6	10% Max

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 383 : 2016 Specification standards.

1. The test results pertain to the number of Sample Received from the site and tested
2. Any correction in the report will make this report invalid
3. This report without prior written approval should not be reproduced or published in full or part
4. Samples will be disposed after 90 days from the date of issue of test certificate

Prepared By:
Pushpa D B

Tested By:
Charan

Project Manager

Gooly Consultancy Services Bangalore

GOOLY CONSULTANCY SERVICES
ISO 9001 : 2015 Certified & NABL Accreditated Laboratory as per ISO/IEC - 17025 - 2017
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Date : 31/03/2021

Sl. No	Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
					0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
2	RD TMT Fe 550		10	0.610	540	592	1.10	15.0	–	–
	RD TMT Fe 550		10	0.619	–	–	–	–	No Rupture or Crack Visible	–
	RD TMT Fe 550		10	0.613	–	–	–	–	–	No Rupture or Crack Visible

Sl. No	Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
					0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
3	RD TMT Fe 550		12	0.880	542	590	1.09	17.0	–	–
	RD TMT Fe 550		12	0.895	–	–	–	–	No Rupture or Crack Visible	–
	RD TMT Fe 550		12	0.883	–	–	–	–	–	No Rupture or Crack Visible

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 1786 : 2008 Specification standards

1. The test results pertain to the number of samples received from the site and tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By:
Pushpa D B

Tested By:
Sree Charan S

Gooly Consultancy Services Bangalore

Project Manager

GOOLY CONSULTANCY SERVICES
ISO 9001 : 2015 Certified & NABL Accreditated Laboratory as per ISO/IEC - 17025 - 2017
Corporate off : No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
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Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm^2)	Average Compressive strength of 3 Cubes (N/mm^2)
9	1/2	Ward 1, Jayamuni Nagar 2nd Main Road RHS	M-20	18-Mar-21	15-Apr-21	150*150 *150	22500	8477	455	20.2	20.3
	1/3	Ward 1, Jayamuni Nagar 2nd Main Road RHS	M-20	18-Mar-21	15-Apr-21	150*150 *150	22500	8255	461	20.5	

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 456 : 2000 Specification standards

1. The test results pertain to the number of samples Received from the site and tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate

Prepared By:
Pushpa D B

Tested By:
Ashwini

Project Manager

Gooly Consultancy Services Bangalore

Date : 04/06/2021

TEST REPORT ON CEMENT CONCRETE CUBES

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No-01, 02 & 04 of Yelahanka division (package no - 01)
Name of Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Sample Identification*: C C Cube / 150mmx150mmx150mm / M - 30 / 28 days Compressive Strength
Reference to BIS codes: **Test Method**
IS 516 : 1959 (RA 2018) Methods Of Tests For Strength Of Concrete Cl.5
Specification:
IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice
Condition of sample: Satisfactory

A.E.E

Compressive strength : Min 30N/mm² as per IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive strength of 3 Cubes (N/mm²)
1	1/1	Ward 1 Baglur Cross Girls PG Back side	M-30	27-Apr-21	25-May-21	150*150 *150	22500	8498	685	30.5	30.3
	1/2	Ward 1 Baglur Cross Girls PG Back side	M-30	27-Apr-21	25-May-21	150*150 *150	22500	8596	692	30.8	
	1/3	Ward 1 Baglur Cross Girls PG Back side	M-30	27-Apr-21	25-May-21	150*150 *150	22500	8506	670	29.8	
2	1/1	Ward 1 Baglur Cross Penna Cement Godown Right Side road	M-30	27-Apr-21	25-May-21	150*150 *150	22500	8577	675	30.0	30.2
	1/2	Ward 1 Baglur Cross Penna Cement Godown Right Side road	M-30	27-Apr-21	25-May-21	150*150 *150	22500	8568	689	30.6	
	1/3	Ward 1 Baglur Cross Penna Cement Godown Right Side road	M-30	27-Apr-21	25-May-21	150*150 *150	22500	8599	673	29.9	
3	1/1	Ward 1 Baglur Cross Co-Living PG Oppsite side road	M-30	28-Apr-21	26-May-21	150*150 *150	22500	8475	681	30.3	30.5
	1/2	Ward 1 Baglur Cross Co-Living PG Oppsite side road	M-30	28-Apr-21	26-May-21	150*150 *150	22500	8425	687	30.5	
	1/3	Ward 1 Baglur Cross Co-Living PG Oppsite side road	M-30	28-Apr-21	26-May-21	150*150 *150	22500	8484	692	30.8	
4	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 1st Cross	M-30	28-Apr-21	26-May-21	150*150 *150	22500	8463	695	30.9	30.9
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 1st Cross	M-30	28-Apr-21	26-May-21	150*150 *150	22500	8425	690	30.7	
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 1st Cross	M-30	28-Apr-21	26-May-21	150*150 *150	22500	8483	702	31.2	
	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 2nd Cross	M-30	29-Apr-21	27-May-21	150*150 *150	22500	8456	715	31.8	

Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive strength of 3 Cubes (N/mm²)
5	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 2nd Cross	M-30	29-Apr-21	27-May-21	150*150*150	22500	8421	702	31.2	31.3
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 2nd Cross	M-30	29-Apr-21	27-May-21	150*150*150	22500	8593	697	31.0	
6	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 3rd Cross	M-30	29-Apr-21	27-May-21	150*150*150	22500	8510	694	30.9	31.4
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 3rd Cross	M-30	29-Apr-21	27-May-21	150*150*150	22500	8592	719	32.0	
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 3rd Cross	M-30	29-Apr-21	27-May-21	150*150*150	22500	8425	705	31.3	
7	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 4th Cross	M-30	30-Apr-21	28-May-21	150*150*150	22500	8519	690	30.7	30.5
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 4th Cross	M-30	30-Apr-21	28-May-21	150*150*150	22500	8550	695	30.9	
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 4th Cross	M-30	30-Apr-21	28-May-21	150*150*150	22500	8427	675	30.0	
8	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 5th Cross	M-30	30-Apr-21	28-May-21	150*150*150	22500	8408	701	31.2	30.8
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 5th Cross	M-30	30-Apr-21	28-May-21	150*150*150	22500	8426	686	30.5	
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 5th Cross	M-30	30-Apr-21	28-May-21	150*150*150	22500	8443	692	30.8	
9	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 20th cross	M-30	03-May-21	31-May-21	150*150*150	22500	8529	699	31.1	31.1
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 20th cross	M-30	03-May-21	31-May-21	150*150*150	22500	8473	710	31.6	
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 20th cross	M-30	03-May-21	31-May-21	150*150*150	22500	8490	689	30.6	
10	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 21st cross	M-30	03-May-21	31-May-21	150*150*150	22500	8516	686	30.5	30.7
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 21st cross	M-30	03-May-21	31-May-21	150*150*150	22500	8409	692	30.8	
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 21st cross	M-30	03-May-21	31-May-21	150*150*150	22500	8522	697	31.0	
11	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 22nd cross	M-30	04-May-21	01-Jun-21	150*150*150	22500	8424	686	30.5	30.4
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 22nd cross	M-30	04-May-21	01-Jun-21	150*150*150	22500	8446	692	30.8	
	1/3	Ward 1 Maruthi Nagar-Papaiah Layout 1st Main 22nd cross	M-30	04-May-21	01-Jun-21	150*150*150	22500	8573	675	30.0	
12	1/1	Ward 1 Maruthi Nagar-Papaiah Layout 2nd Main 15th cross	M-30	04-May-21	01-Jun-21	150*150*150	22500	8452	712	31.7	31.6
	1/2	Ward 1 Maruthi Nagar-Papaiah Layout 2nd Main 15th cross	M-30	04-May-21	01-Jun-21	150*150*150	22500	8561	705	31.3	

A.E.E

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Contact: +91-80-42277023/24, 9535200824, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

TEST REPORT OF GRADATION FOR GSB

Name of Client: Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)

Name of Contractor: M/s Sri Sai Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Date of Sample Collection: 4/20/2021

Chainage/Location/Land Mark: Ward 1 Maruthi Nagar-1st Main 7th Cross

Date of testing: 4/20/2021

Reference to BIS codes: IS 2386 (Part 1) 1963 (RA 2016) Particle Size and Shape Cl 2

Layer: GSB

Oven Dry Wt (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	As per MORTH 5th Revsion Table 400.1 (Garding V)
1	75	0	0	0 00	100 00	100
2	53	596	596	5 96	94 04	80-100
3	26 5	1632	2228	22 28	77 72	55-90
4	9 5	3768	5996	59 96	40 04	35-65
5	4 75	1152	7148	71 48	28 52	25-50
6	2 36	985	8133	81 33	18 67	10-20
7	0 85	895	9028	90 28	9 72	2-10
8	0 425	654	9682	96 82	3 18	0-5
9	pan	318	10000	100 00	0 00	-

Remarks:

The tested sample is found to be satisfactory as it meets MORTH Specification/Project Requirement.

1. The test results pertain to the number of samples as furnished by the customer
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate

Gooly Consultancy Services Bangalore

Contractor/Contractor Representative

Client(AE/AEE/EE)

PMC

Corporate off : No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

TEST REPORT OF DETERMINATION OF RATE OF SPREAD PRIMER COAT

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: Ward 1 Maruthi Nagar-1st Main 7th Cross
Date of testing: 24-Apr-2021

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	mt	0.2*0.2	0.2*0.2	0.2*0.2
Area of Plate (a)	Sq m	0.04	0.04	0.04
Initial Wt of empty Plate (b)	Kg	0.200	0.200	0.200
Final weight of plate after application of prime /Tack Coat (c)	Kg	0.225	0.226	0.224
Weight of Prime/Tack Coat (d=c-b)	Kg	0.03	0.03	0.02
Rate of spread of Prime/tack coat	kg/Sq m	0.625	0.650	0.600
Average	kg/Sq.m	0.625		
Specified Limit	kg/Sq.m	0.60 Kg/sq.m for Prime coat		

A.E.E

Remarks:
The tested sample is found to be satisfactory as it meets MORTH Specification/Project Requirement.

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Contractor/Contractor Representative Client(AE/AEE/EE) PMC

Gooly Consultancy Services Bangalore

TEST REPORT OF DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Chainage/Location /Land Mark: Ward 1 Maruthi Nagar-1st Main 7th Cross
Date of testing: 24-Apr-2021

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	mt	0 2*0 2	0 2*0 2	0 2*0 2
Area of Plate (a)	Sq m	0 04	0 04	0 04
Initial Wt of empty Plate (b)	Kg	0 200	0 200	0 200
Final weight of plate after application of prime /Tack Coat (c)	Kg	0 21	0 211	0 212
Weight of Prime/Tack Coat (d=c-b)	Kg	0 010	0 011	0 012
Rate of spread of Prime/tack coat	kg/Sq m	0 250	0.275	0 300
Average	**kg/Sq.m**	**0.275**		
Specified Limit	**kg/Sq.m**	**2.5 kg per 10 sqm for Tack coat**		

Remarks:

The tested sample is found to be satisfactory as it meets MORTH Specification/Project Requirement.

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Contractor/Contractor Representative **Client(AE/AEE/EE)** **PMC**

Corporate off : No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 24-Apr-2021
Chainage/Location /Land Mark: Ward 1 Maruthi Nagar-1st Main 7th Cross
Date of testing: 24-Apr-21
Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1 Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4 5 min VG-30
2 Weight of Mixture after Test, gm	476	
3 Weight of Bitumen Extracted, gm	24	
4 Bitumen content in %	4 8	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 476 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0 00	0 00	100 00	100
26.5	45	9 45	9 45	90 55	90 - 100
19	62	13 03	22 48	77 52	71-95
13 2	79	16 60	39 08	60 92	56-80
4 75	62	13 03	52 10	47 90	38-54
2 36	58	12 18	64 29	35 71	28-42
0 3	102	21 43	85 71	14 29	7-21
0 075	52	10 92	96 64	3 36	2-8

AE-1 A.E.E

Remarks:
The tested sample is found to be satisfactory as it meets MORTH Specification/Project Requirement.
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Contractor/Contractor Representative

Client(AE/AEE/EE)

PMC

Gooly Consultancy Services Bangalore

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TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 24-Apr-2021
Chainage/Location /Land Mark: Ward 1 Maruthi Nagar-1st Main 7th Cross
Date of testing: 24-Apr-21
Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1 Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4 5 min VG-30
2 Weight of Mixture after Test, gm	475	
3 Weight of Bitumen Extracted, gm	25	
4 Bitumen content in %	5 0	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 475 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0 00	0 00	100 00	100
26 5	39	8 21	8 21	91.79	90 - 100
19	56	11 79	20 00	80 00	71-95
13 2	75	15 79	35 79	64 21	56-80
4.75	61	12 84	48 63	51 37	38-54
2 36	56	11 79	60 42	39 58	28-42
0 3	98	20.63	81 05	18.95	7-21
0 075	71	14 95	96 00	4 00	2-8

Remarks:
The tested sample is found to be satisfactory as it meets MORTH Specification/Project Requirement.
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FOR SRI SAI CONSTRUCTIONS

Contractor/Contractor Representative

Client(AE/AEE/EE)

PMC

Gooly Consultancy Services Bangalore

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TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 24-Apr-2021
Chainage/Location /Land Mark: Ward 1 Maruthi Nagar-1st Main 7th Cross
Date of testing: 24-Apr-2021
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500 17 Binder Content 5 4% min
2. Weight of Mixture after Test, gm	473	
3. Weight of Binder Extracted, gm	27	
4. Binder content in %	5 4	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 473 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
	0	0 00	0 00	100 00	100
13 2	33	6 98	6 98	93 02	90 - 100
9 5	99	20 93	27 91	72 09	70-88
4 75	75	15 86	43 76	56 24	53-71
2 36	44	9 30	53 07	46 93	42-58
1 18	52	10 99	64 06	35 94	34-48
0 6	42	8 88	72 94	27 06	26-38
0 3	36	7 61	80 55	19 45	18-28
0 15	22	4 65	85 20	14 80	12-20
0 075	25	5 29	90 49	9 51	4-10

Remarks:
The tested sample is found to be satisfactory as it meets MORTH Specification/Project Requirement.
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Contractor/Contractor Representative | Client(AE/AEE/EE) | PMC

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TEST REPORTS OF BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 24-Apr-2021
Chainage/Location /Land Mark: Ward 1 Maruthi Nagar-1st Main 7th Cross
Date of testing: 24-Apr-2021
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1 Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500 17 Binder Content 5 4% min
2 Weight of Mixture after Test, gm	472	
3 Weight of Binder Extracted, gm	28	
4 Binder content in %	5 6	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0 00	0 00	100 00	100
13 2	38	8 05	8 05	91 95	90 - 100
9 5	89	18 86	26 91	73 09	70-88
4 75	78	16 53	43 43	56 57	53-71
2 36	24	5 08	48 52	51 48	42-58
1 18	35	7 42	55 93	44 07	34-48
0 6	36	7 63	63 56	36 44	26-38
0 3	52	11 02	74 58	25 42	18-28
0 15	26	5 51	80 08	19 92	12-20
0 075	55	11 65	91 74	8 26	4-10

Remarks:
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